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# CO OPERATIVE VEGETABLE SEED PROGRAM

•Certi-Seed Service•



The faith and hope of the planter  
must be protected by  
the use of dependable seed

EASTERN STATES FARMERS EXCHANGE  
SPRINGFIELD, MASS.

# COOPERATIVE VEGETABLE SEED PROGRAM

## *Certi-Seed Service*

Successful gardening is dependent, to a large extent, upon the character of seed used. Through experience farmers have come to recognize the need for a cooperative vegetable seed service for more dependable crop production of the desired type and economy in the purchase of their basic and most important raw material — seeds.

### **Farmer Ownership and Control**

The Eastern States Farmers' Exchange is a non-stock, non-profit cooperative organization, owned and controlled by the farmers it serves. The only requirement for membership is participation and each member benefits in proportion to his purchases. Through a large volume of business farmers have accumulated adequate capital, developed ample facilities and employed trained personnel to carry out the sole purpose — service to its members.

### **Method of Procedure**

Information is assembled from producers, marketing agencies, processors and consumers to ascertain the types of the various vegetables preferred because of their superiority in production, distribution, manufacture and consumption.

### **Extensive Trials in Many Places**

Seed performance is observed by comparing the most promising vari-

eties, strains and seed sources in order to determine their adaptation to the principal vegetable producing regions, trueness to the desired types, productiveness and resistance to or freedom from disease.

### **Seed Improvement Is Thorough**

Plant breeding operations are performed by trained specialists working in cooperation with State Experiment Stations and the United States Department of Agriculture. In-breeding purifies strains so that they come true with uniformity; hybridization instills extreme vigor; cross-breeding creates new lines of the desired type; progeny reproduction affords pure-line selections; and mass production assures economy in the development of a seed supply with this type of inheritance for dependable performance.

### **Seed Is Treated to Control Disease**

Disease control, through a complete schedule of seed treatment, is performed at its source before the seeds are shipped because here the deadly chemicals and delicate heat treatments are most effectively applied, accurately controlled and economically done.

### **The Exchange Keeps a Complete Record of Each Lot of Seed**

Each lot of seed distributed will be identified by a brief descriptive name



and a code mark which represents a complete history of the strain. The crop will tell its own story to the gardener, the produce buyer and the ultimate consumer. Future seed distribution must be based upon satisfactory performance.

### Suggestions for Trial Tests

The seed supply is procured through the multiplication of our own foundation seed stocks and by purchases from sources of proven merit. Every lot of seed distributed is tested for vitality and proven in our trials by plant growth to productive maturity. The seed is thoroughly cleaned, graded or hand picked and thus refined with a margin of safety for true economic values and uniformity in a field stand.

However, one identical lot of seed may perform quite differently under a variety of soil, weather or cultural conditions. It is therefore essential to make several plantings in different places at intervals in the planting season. This will assure a higher degree of satisfaction to the grower who desires to make comparison tests.

*Keep This Vegetable Seed Program Working in Your Community.  
Hand Your Copy to a Neighbor with Your Recommendation  
After You Have Ordered. Send Us the Names and Addresses of  
Others Who May Be Interested. We'll Mail Them One*

Since this service is a means of improvement over ordinary sources of seed, the Exchange reserves the privilege of filling orders by including a small amount of one or several promising strains to be compared with the particular strain originally selected to fill the order.

### Ask for Information on Crops of Special Interest

Specific cultural directions will be supplied with a desire to guide the planter in successful crop production.

### Classification by Culture and Usage

Vegetables requiring similar culture, or susceptible to the same diseases or used for similar purposes will be grouped together for convenience to the grower. They will be arranged according to the necessity of starting plants under glass or suitable for outdoor seeding, and as to whether they are hardy, half-hardy or tender.

Price lists, order blanks and other tabulated material will be alphabetically arranged for quick and ready reference.

## COOPERATIVE VEGETABLE SEED SERVICE

Prices of seed, except roots, include bags and transportation in Eastern States territory by parcel post, express or freight at our option (at lowest cost). Shipments will be made C.O.D. charges collect unless full payment accompanies the order. Prices are subject to change without notice. All orders are subject to confirmation and satisfactory stocks on hand at time of shipment which shall be made as requested any time during 1934.

An Eastern States packet contains sufficient seed of its kind for the average family. Where a continuous supply of each kind is desired, order varieties which will produce a succession from early to late maturity wherever available. This also affords a pleasing variety throughout the season. This is especially true of such items as Beans, Beets, Cabbage, Carrots, Celery, Corn, Muskmelons, Peas, Peppers, Pumpkin, Radish, Spinach, Squash, Tomato and Turnip.

The Eastern States Farmers' Exchange of Springfield, Mass. has exercised all reasonable precautions in the production and distribution of this seed; but cannot be responsible for the operation of Nature's laws; nor govern the conditions under which the crop is grown. Therefore, upon the acceptance of this seed, it is mutually agreed that the Eastern States Farmers' Exchange gives no warranty express or implied, concerning the description, quality, productiveness or condition of the crop and shall in no case be liable for more than the amount actually paid for the seed. Statements of germination, description and other information are given as the report of our tests, observations and advice.

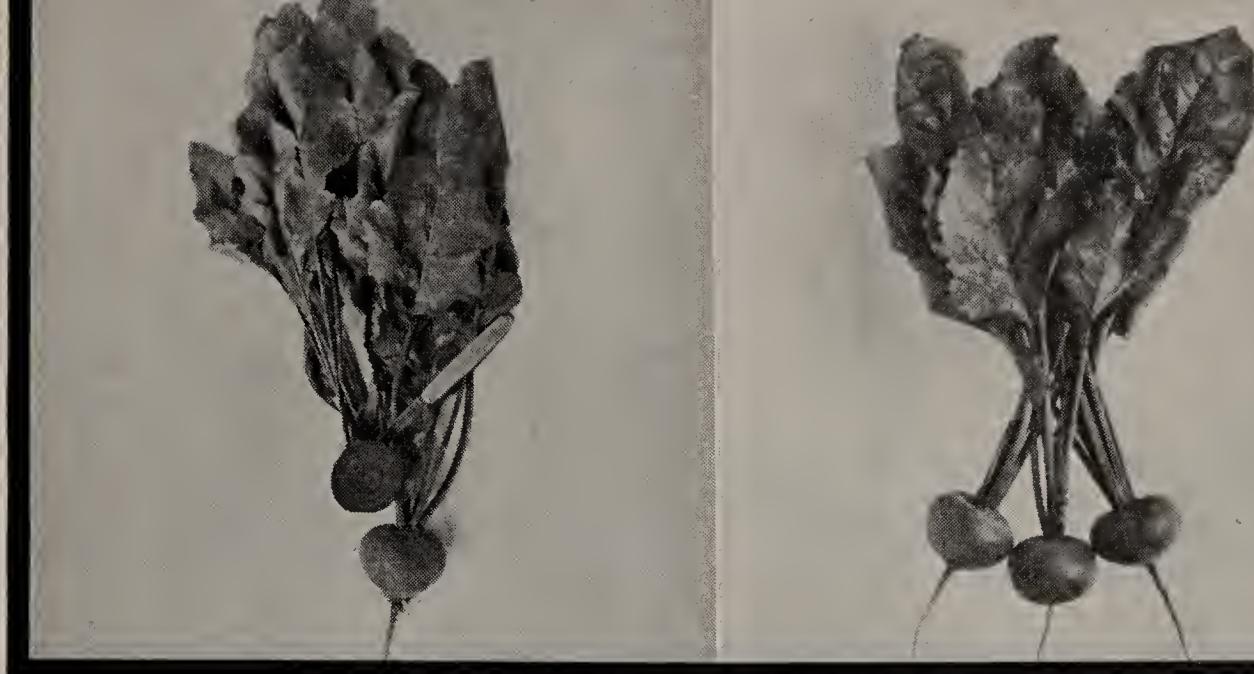


Stringless Green Pod beans, productive, fleshy, brittle, tender, stringless and without fiber, characterize Certi-Seed selections. Plant several varieties for succession.

Kind of Vegetable	Description of Type	Order from this Column of Eastern States Varieties	Consumers' Prices				10-25-
			Pkt.	Oz.	1/4 Lb.	1-5 Lb.	50- Cwt.
<b>ASPARAGUS SEED</b> — Large green Rust resistant, early	Mary Washington		.10	—	.35	1.25	1.20
<b>ROOTS</b> — 1 Yr. same		Mary Washington, Packed F.O.B. \$1.50 per 100, \$8.00 per 1000					
<b>BEAN</b> — Bush green snap							
Flat pod, early	Bountiful		.10	—	—	.20	.15
Flat pod, late	Low's Champion		.10	—	—	.20	.15
Round pod, early	Stringless Valentine		.10	—	—	.20	.15
Round pod, 2nd early	Stringless Green Pod		.10	—	—	.20	.15
Round pod, late	Stringless Refugee		.10	—	—	.20	.15
<b>BEAN</b> — Bush wax snap							
Flat pod, black seed	Sure Crop		.10	—	—	.20	.15
Round pod, black seed	Pencil Pod		.10	—	—	.20	.15
Round pod, white seed	Brittle Wax		.10	—	—	.20	.15
<b>BEAN</b> — Bush shell or field							
Mottled red-green pod	Horticultural		.10	—	—	.20	.15
Red kidney, disease res't.	Geneva		.10	—	—	.15	.12
Navy pea, disease res't.	Michigan Robust		.10	—	—	.15	.12
Yellow eye, runner type	Main Yellow Eye		.10	—	—	.15	.12
<b>BEAN</b> — Bush lima							
Small seeded canner	Henderson		.10	—	—	.20	.15
Large seeded potato type	Fordhook		.10	—	—	.30	.25
<b>BEAN</b> — Pole lima							
Small seeded canner	Sieva		.10	—	—	.25	.20
Large seeded, early	Leviathan		.10	—	—	.25	.20
Large seeded, 2nd early	King of Garden		.10	—	—	.25	.20
<b>BEAN</b> — Pole snap							
Green round pod	Kentucky Wonder		.10	—	—	.25	.20
Wax flat pod	Golden Cluster		.10	—	—	.25	.20
Mottled shell	Cranberry		.10	—	—	.25	.20

Fordhook bush limas are plump and nutritious. Use them green, canned or dried {left}. . . A delicious vegetable rapidly gaining popularity is Green Sprouting Calabrese Broccoli.





*Detroit dark red beets with deep blood-red interior and indistinct rings have arrived (left). . . . This bright, smooth, tender, quick growing Crosby will please the most critical consumer.*

Kind of Vegetable	Description of Type	Order from this Column of Eastern States Varieties	Consumers' Prices				10-25-50-Cwt.
			Pkt.	Oz.	1/4 Lb.	1-5 Lb.	
<b>BEET — Table</b>							
Early forcing, flat	Egyptian	.10	—	.30	.90	.85	
Early market, oval	Crosby (Early Wonder)	.10	—	.30	.90	.85	
Late market, globe	Detroit	.10	—	.30	.90	.85	
All season canner, globe	Ohio Canner	.10	—	.30	.90	.85	
<b>BEET — Stock Mangel Wurzel</b>							
Yellow oval, white flesh	Giant Sludstrup	.10	—	.25	.75	.70	
Red taper, rose-white fl.	Mammoth Long Red	.10	—	.25	.75	.70	
<b>BEET — Swiss Chard —</b>							
Savoyed							
Light leaf, large rib	Lucullus	.10	—	.25	.75	.70	
Dark leaf, large rib	Fordhook Giant	.10	—	.25	.75	.70	
<b>BROCCOLI</b>							
Green sprouting	Calabrese	.10	.25	.75	2.50	2.40	
<b>BRUSSELS SPROUTS</b>							
Half dwarf	Long Island Improved	.10	.25	.75	2.50	2.40	
<b>CABBAGE — Smooth green</b>							
Round early, special	Copenhagen (Golden Acre) Elite	.10	.50	1.50	5.00	4.75	
Round early, regular	Copenhagen (Golden Acre) Regular	.10	.25	.75	2.50	2.40	
Round mid season	Glory of Enkhuizen	.10	.25	.75	2.50	2.40	
Round late, regular	Short Stem Ballhead	.10	.25	.75	2.50	2.40	
Round late, special	Penn State Ballhead (Official)	.10	.35	1.00	3.50	3.25	
<b>CABBAGE — Specialties</b>							
Savoy green flat, late	Drumhead Savoy	.10	.25	.75	2.50	2.40	
Smooth red round, late	Mammoth Red Danish	.10	.25	.75	2.50	2.40	
Smooth red oval, late	Mammoth Rock Red	.10	.25	.75	2.50	2.40	

*The seed-bed of our cabbage trials where 80 strains were started for comparison (left). . . . Penn State Ballhead (Official), a high yielder developed by Dr. Myers of Pennsylvania State College.*





*Cauliflower, very sensitive to environment, is available in three proven strains (left). . . . Danvers is one of the most popular intermediate bunching carrots and a good keeper.*

Kind of Vegetable	Description of Type	Order from this Column of Eastern States Varieties	Consumers' Prices				10-25-50-Cwt.
			Pkt.	Oz.	1/4 Lb.	1-5 Lb.	
<b>CABBAGE — Chinese</b>							
Tall	Chihli		.10	.25	.75	2.50	2.40
Medium	PeTsai (Wong Bok)		.10	.25	.75	2.50	2.40
<b>CAULIFLOWER</b>							
Early simultaneous	Danish Early Snowball		.25	1.50	5.00	18.00	17.00
Main crop Erfurt	Holland Erfurt		.25	1.50	5.00	18.00	17.00
Main crop Snowball	Main Crop Snowball		.25	1.50	5.00	18.00	17.00
<b>CARROT — Cylindrical Stump</b>							
Long, late	Hutchinson		.10	.25	.75	2.50	2.40
Half long, early	Nantes Long		.10	.25	.75	2.50	2.40
<b>CARROT — Semi Tapering</b>							
Stump	Danvers		.10	.25	.75	2.50	2.40
Half long, late	Chantenay (Red Cored)		.10	.25	.75	2.50	2.40
Short, early	Imperator (Perfection)		.10	.25	.75	2.50	2.40
Long pointed to stump	(New Long Bunching)						
<b>CELERY — Yellow Easy</b>							
Bleaching							
Long, early forcing	Golden Self Blanching (Cal.)	.10	.50	1.50	5.00	4.75	
Long, full heart, late	Golden Self Blanching (Jersey)	.25	1.50	5.00	18.00	17.00	
Long, full heart, early	Golden Plume (Jersey Strain)	.25	1.50	5.00	18.00	17.00	
Short, full heart, early	Golden Plume (California)	.10	.50	1.50	5.00	4.75	
<b>CELERY — Green thick rib</b>							
Long, full heart, late	Pascal (Jersey Strain)	.25	1.50	5.00	18.00	17.00	
Long, full heart, late	Pascal (California Strain)	.10	.25	.75	2.50	2.40	
Long, full heart, early	Easy Blanching (Jersey)	.25	1.50	5.00	18.00	17.00	
Long, full heart, early	Easy Blanching (California)	.10	.25	.75	2.50	2.40	

*When we look for an early bunching carrot the red cored Chantenay fills the bill (left). . . . The new long bunching Imperator makes a beautiful box carrot also for summer and fall.*



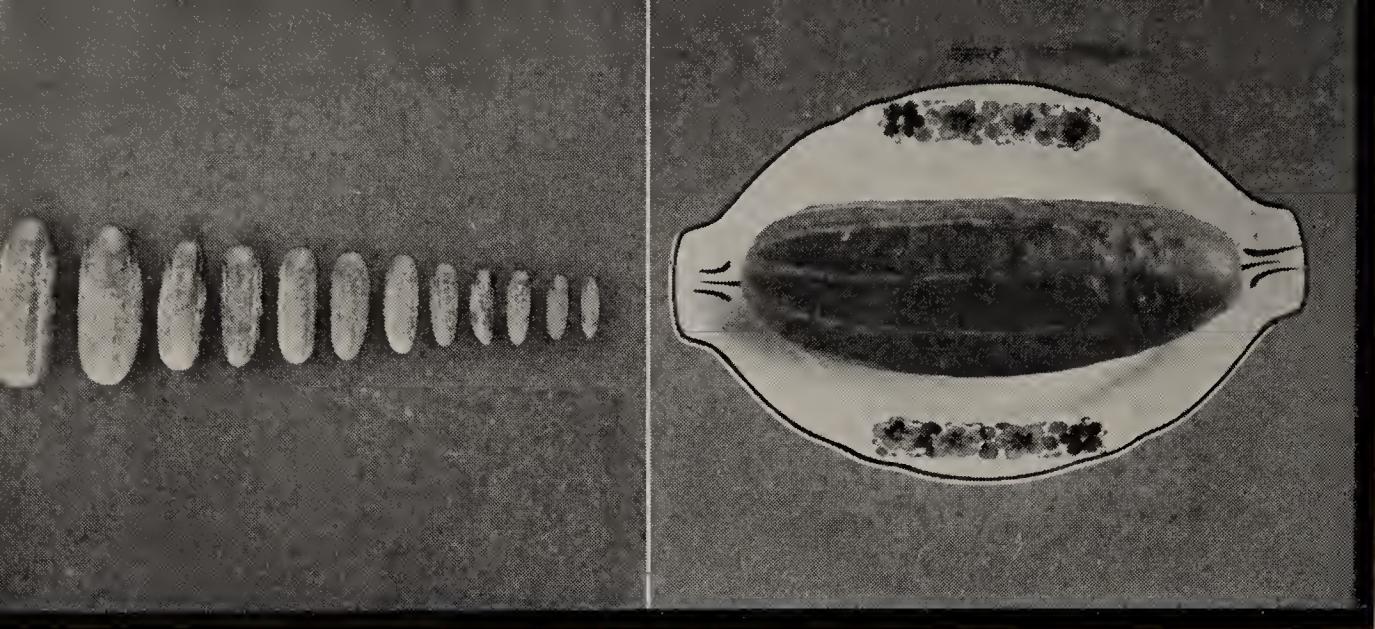


Wherever there is danger of bacterial wilt, hybrid varieties are the only kind to plant. Top-cross Sunshine (Tendergold) on left and Golden Cross Bantam on right are excellent.

Kind of Vegetable	Description of Type	Order from this Column of Eastern States Varieties	Consumers' Prices			10-25-	
			Pkt.	Oz.	$\frac{1}{4}$ Lb.	1-5 Lb.	50- Cwt.
<b>CORN — Sweet yellow hybrid</b>							
Part wilt res't, 2nd early	Top Cross Sunshine	.15	—	—	—	.35	.30
Very wilt res't, 2nd early	Golden Cross Bantam	.15	—	—	—	.50	.45
Very wilt res't, late	Bantam Evergreen Hybrid	.25	—	—	—	.75	.70
<b>CORN — Sweet white hybrid</b>							
Very wilt res't, midseason	Country Gentleman Hybrid	.25	—	—	—	.75	.70
Very wilt res't, mid late	Evergreen Hybrid	.25	—	—	—	.75	.70
Very wilt res't, late	Red Green Hybrid	.25	—	—	—	.75	.70
<b>CORN — Sweet yellow open pollinated</b>							
Wilt susceptible, early	Golden Early Market	.10	—	—	—	.20	.15
Wilt susceptible, 2nd early	Golden Sunshine (Tendergold)	.10	—	—	—	.20	.15
Wilt susceptible, mid early	Whipples Early Yellow	.10	—	—	—	.20	.15
Wilt susceptible, midseason	Golden Bantam	.10	—	—	—	.20	.15
Partial wilt res't, late	Bantam Evergreen	.10	—	—	—	.25	.20
<b>CORN — Sweet white open pollinated</b>							
Wilt susceptible, 2nd early	Howling Mob	.10	—	—	—	.20	.15
Part res't, mid season	Country Gentleman	.10	—	—	—	.20	.15
Part res't, late	Narrow Grained Evergreen	.10	—	—	—	.20	.15
<b>CORN POP — Wilt susceptible</b>							
White, early	Japanese Hulless	.10	—	—	—	.20	.15
Yellow, mid season	College Sunburst	.10	—	—	—	.20	.15

The selection of your favorite type of Certi-Seed celery will be your final answer to quality. Long, full-hearted, early or late, yellow or green and the shortfull-hearted type also (left).





Association Pickling cucumber {left} was developed by Michigan State College for the National Pickling Association. A popular general purpose cucumber is Davis Perfect on the right.

Kind of Vegetable	Description of Type	Order from this Column of Eastern States Varieties	Consumers' Prices			10-25-50-Cwt.	
			Pkt.	Oz.	1/4 Lb.	1-5 Lb.	50-Cwt.
<b>CUCUMBER — Pickling</b>							
Small prolific	Association Pickling		.10	—	.25	.75	.70
Large prolific	Chicago Pickling		.10	—	.25	.75	.70
<b>CUCUMBER — Slicing</b>							
Short thick	Davis Perfect		.10	—	.25	.75	.70
Intermediate	Clark's Special		.10	—	.25	.75	.70
Long Cylindrical	Longfellow		.10	—	.25	.75	.70
<b>DANDELION</b>							
Large thick leaf	Arlington Broad Leaf		.10	.35	1.00	3.50	3.25
<b>EGG PLANT</b>							
Oval, mid season	Black Beauty		.10	.35	1.00	3.50	3.25
<b>ENDIVE</b>							
Cut leaf, late	Green Curled Ruffec		.10	—	.25	.75	.70
Broad leaf, early	Batavian Full Heart		.10	—	.25	.75	.70
<b>KALE — Curled</b>							
Dwarf, early	Blue Scotch		.10	—	.25	.75	.70
Long standing, late	Blue-Green Siberian		.10	—	.25	.75	.70
<b>KOHL RABI</b>							
Early forcing	White Vienna		.10	.25	.75	2.50	2.40
Early dwarf	Purple Vienna		.10	.25	.75	2.50	2.40
<b>LEEK</b>							
Long thick stem, early	Large American Flag		.10	.25	.75	2.50	2.40

Clark's Special, when well grown, meets every demand for a long, green slicing cuke. . . . The crisp, sparkling, New York No. 12 lettuce produces a high percentage of solid heads.



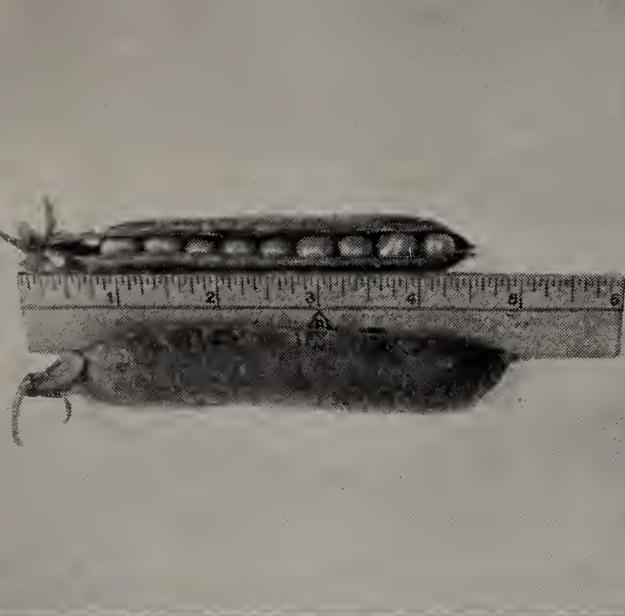


*When the faith and hope of the planter is rewarded with a satisfactory crop, the crisp heads pack snugly into the package and tempt the consumer in every market.*

Kind of Vegetable	Description of Type	Order from this Column of Eastern States Varieties	Consumers' Prices			10-25-50-Cwt.
			Pkt.	Oz.	$\frac{1}{4}$ Lb.	
<b>LETTUCE</b>						
Loose leaf	Early Curled Simpson	.10	—	.25	.75	.70
Crisp Head	New York No. 12	.10	—	.25	.75	.70
Butter head	White Boston	.10	—	.25	.75	.70
Cos Green	Dark Green cos	.10	—	.25	.75	.70
Cos White	White Paris cos	.10	—	.25	.75	.70
<b>MUSKMELON</b> — Salmon Flesh						
Small globe ribbed, early	Emerald Gem	.10	—	.35	1.25	1.20
Large oval ribbed 2d early	Milwaukee Market	.10	—	.35	1.25	1.20
Large ob. ribbed mid early	Osage (Millers Cream)	.10	—	.35	1.25	1.20
Large obl. ribbed midseason	Benders Surprise	.10	—	.35	1.25	1.20
Large globe ribbed midlate	Honey Rock (Sugar Rock)	.10	—	.35	1.25	1.20
Large globe ribbed midlate	Hearts of Gold	.10	—	.35	1.25	1.20
<b>WATERMELON</b>						
Oval pink flesh black seed	Cole's Early	.10	—	.25	.75	.70
Oblong red flesh wh. seed	Kleckley's Sweet 2nd Early	.10	—	.25	.75	.70
Oval Scarlet fl. bl. tip seed	Stone Mountain Late	.10	—	.25	.75	.70
<b>ONION SEED</b> — Yellow						
Flat deep, early	Ebenezer	.10	.25	.75	2.50	2.40
Flat to oval, early	Extra Early Yellow	.10	.25	.75	2.50	2.40
Globe 2nd early	Early Yellow Globe	.10	.25	.75	2.50	2.40
Globe mid early	Yellow Globe Danvers	.10	.25	.75	2.50	2.40
Globe Late	Riverside Sweet Spanish	.10	.25	.75	2.50	2.40
<b>ONION SEED</b> — White						
Globe	Southport White Globe	.10	.25	.75	2.50	2.40
<b>ONION SETS</b>						
Yellow flat deep	Japanese Ebenezer	—	—	—	.15	.12
Yellow oval	Golden Marvel Bottleneck	—	—	—	.15	.12
White flat deep	Silverskin White Portugal	—	—	—	.15	.12

*The onion most generally grown from sets or an early seed onion is Ebenezer (left). . . . The globe type is available in a steady succession of yellows; also in white.*

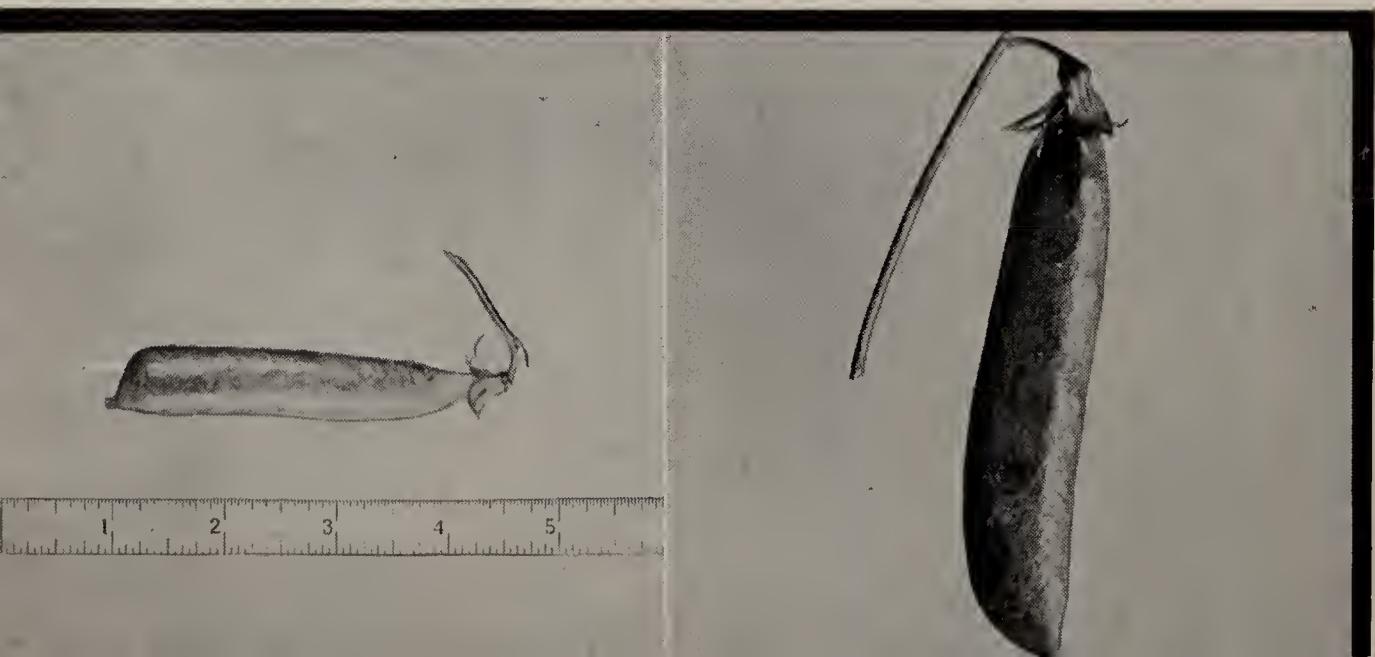




*Alderman (Improved Telephone) is the criterion of all peas. A tall late variety (left). . . . Two hundred and four different lots were tested, weighed and scored in our trials. The plant can tell its own story and some give a better account of themselves than others.*

Kind of Vegetable	Description of Type	Order from this Column of Eastern States Varieties	Consumers' Prices			10-25-50-Cwt.
			Pkt.	Oz.	¼ Lb.	
<b>PARSLEY</b>						
Dwarf moss curled	Emerald		.10	—	.25	.75
Long stem moss curled	Peerless Moss Curled		.10	—	.25	.75
<b>PARSNIP</b>						
Long white smooth	Improved Hollow Crown		.10	—	.25	.75
<b>PEA — Wrinkled</b>						
Dwarf, early	Little Marvel		.10	—	—	.30
Semi dwarf, early	World Record (Improved Gradus)		.10	—	—	.30
Dwarf, 2nd early	Laxtonian		.10	—	—	.25
Dwarf, late	Stratagem		.10	—	—	.20
Tall, late	Alderman (Telephone)		.10	—	—	.25
Canner, semi dwarf, early	Surprise		.10	—	—	.25
Edible pod, dwarf, 2d early	Dwarf Grey Sugar		.10	—	—	.20
Edible pod, tall, late	Mammoth Melting Sugar		.10	—	—	.25

*This Little Marvel (left) is a marvel in any garden. . . . World's Record, a dandy market pea. Both are early, sweet wrinkled peas with deep green pods of exceptional quality. The delicious flavor of fresh June peas is unsurpassed. A succession prolongs the delight.*





The smooth, thick walled California Wonder is unquestionably the premier stuffing pepper, while our giant selection of Ruby King is a favorite for general culinary uses. . . . Most vegetables are eaten for their nutritional values. Most of them aid digestion. Peppers are adapted to many uses, raw in salads and prepared individually or with other foods.

Kind of Vegetable	Description of Type	Order from this Column of Eastern States Varieties	Consumers' Prices				10-25-50-Cwt.
			Pkt.	Oz.	$\frac{1}{4}$ Lb.	1-5 Lb.	
<b>PEPPER — Sweet</b>							
Short, heavy, early	Early Giant		.10	.35	1.00	3.50	3.25
Long, heavy, early	Giant King		.10	.35	1.00	3.50	3.25
Long, heavy, late	World Beater		.10	.35	1.00	3.50	3.25
Short, heavy, late	California Wonder		.10	.35	1.00	3.50	3.25
<b>PEPPER — Hot</b>							
Long, slender, early	Long Red Cayenne		.10	.35	1.00	3.50	3.25
Small, tapering, late	Tabasco		.10	.35	1.00	3.50	3.25

Peerless long stem parsley, suitable for bunching, makes attractive garnishing or flavoring. . . . The long Hollow Crown parsnip on the right is bright, smooth, sweet and tender after freezing. Those who have learned to enjoy parsnips know the pleasure which variety adds to the diet.



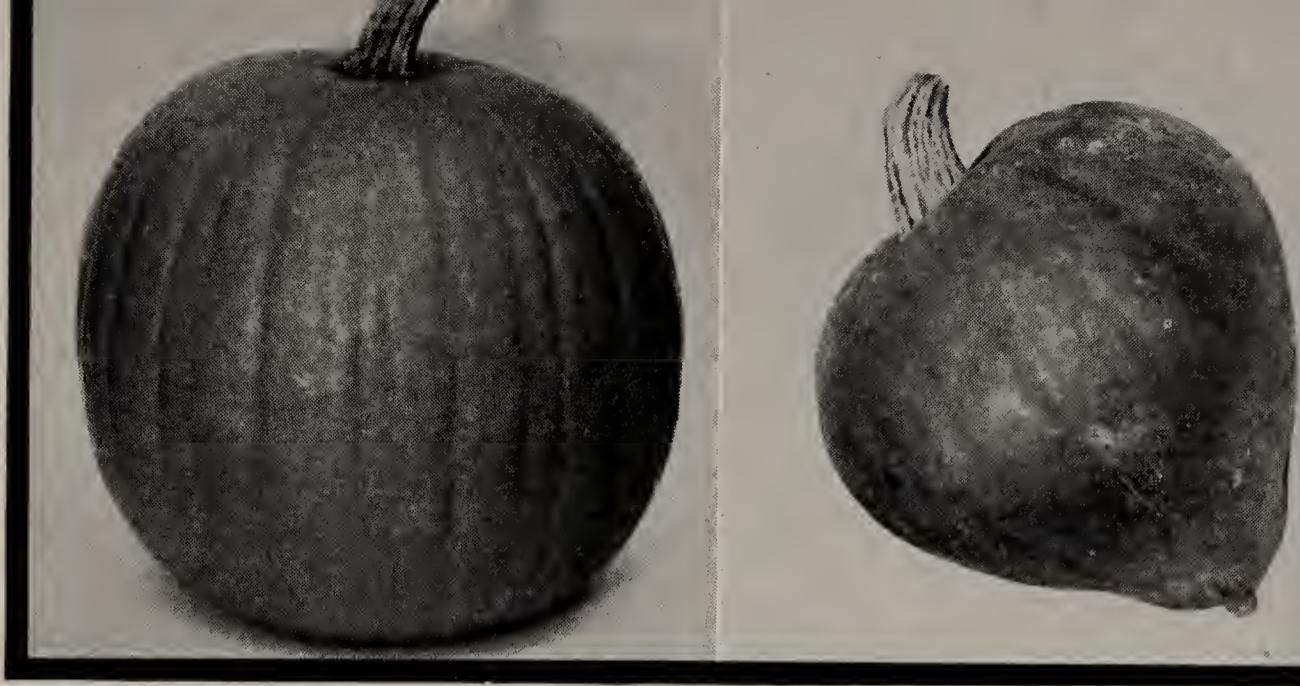


Every garden should include White Icicle radish. Long Scarlet is similar except in color.... Early Scarlet Globe (right) is a popular early sort. Philadelphia White Box adds variety in color as does also the Sparkler with its white tipped scarlet globe. Crimson Giant remains mild and crisp over a long growing period, resembling Scarlet Globe but gets much larger.

Kind of Vegetable	Description of Type	Order from this Column of Eastern States Varieties	Consumers' Prices				10-25- 50- Cwt.
			Pkt.	Oz.	1/4 Lb.	1-5 Lb.	
<b>PUMPKIN</b>							
Field, round, yellow	Connecticut Field	.10	—	.25	.75	.70	
Pie, round, yellow	New England Pie	.10	—	.25	.75	.70	
Pie, round, yellow, netted	Winter Luxury	.10	—	.25	.75	.70	
Pie, flat, canner	Large Cheese	.10	—	.25	.75	.70	
<b>RADISH</b>							
Early, globe, scarlet	Early Scarlet Globe	.10	—	.25	.75	.70	
2nd early, globe, crimson	Crimson Giant	.10	—	.25	.75	.70	
Early scarlet white tip	Sparkler White Tip	.10	—	.25	.75	.70	
Early globe, white	Philadelphia White Box	.10	—	.25	.75	.70	
Early long, scarlet	Long Scarlet	.10	—	.25	.75	.70	
Early long, white	White Icicle	.10	—	.25	.75	.70	
Late, large, long, white	Chinese Winter Celestial	.10	—	.25	.75	.70	
<b>RHUBARB ROOTS</b>							
Mammoth strawberry	Victoria Selection, Packed F.O.B. 8.00 per 100, 75.00 per 1000						
<b>SALSIFY</b>							
Oyster plant	Mammoth Sandwich Island	.10	.25	.75	2.50	2.40	

Blue Hubbard of the thick flesh type is an excellent variety for winter storage (left). When properly grown, the Blue Hubbard of Certi-Seed selection is a heavy yielder.





*The Connecticut Field pumpkin is a delight to all in the Halloween season. Golden and Green Delicious are noted for their dry mellow flesh. They keep well in storage.*

Kind of Vegetable	Description of Type	Order from this Column of Eastern States Varieties	Consumers' Prices			10-25-50-Cwt.	
			Pkt.	Oz.	1/4 Lb.	1-5 Lb.	50- Cwt.
<b>SQUASH — Summer Bush</b>							
Yellow warted, early	Giant Summer Straight Neck	.10	—	.35	1.25	1.20	
Green striped smooth 2d E.	Long Cocozelle	.10	—	.35	1.25	1.20	
White Patty Pan	White Bush Scallop	.10	—	.35	1.25	1.20	
<b>SQUASH — Fall and Winter</b>							
Green acorn table queen	Des Moines	.10	—	.35	1.25	1.20	
Orange top dry flesh	Golden Delicious	.10	—	.35	1.25	1.20	
Green top dry flesh	Green Delicious	.10	—	.35	1.25	1.20	
Blue warted	Blue Hubbard	.10	—	.35	1.25	1.20	
Green warted	Vermont Hubbard	.10	—	.35	1.25	1.20	
Red Turban	Warren's Essex Hybrid	.10	—	.35	1.25	1.20	
<b>SPINACH</b>							
Savoy early	Dark Green Bloomsdale	.10	—	—	.25	.20	
Savoy, 2nd early	Long Standing Bloomsdale	.10	—	—	.25	.20	
Blight res't savoy, late	Va. Yellows Resistant Savoy	.10	—	—	.25	.20	
Large smooth long standing	Giant Nobel Thick Leaf	.10	—	—	.25	.20	
Early planted summer cut	New Zealand	.10	—	.25	.75	.70	

*An early summer White Bush Scallop (left) is admired by many for its mildness of flavor. . . . The early Giant Summer Straight Neck is selected for its smooth tender texture. In order to fully appreciate summer squash, the fruits must be picked when quite young. The outer shell should be soft and tender. The younger the fruit the more tender they are.*

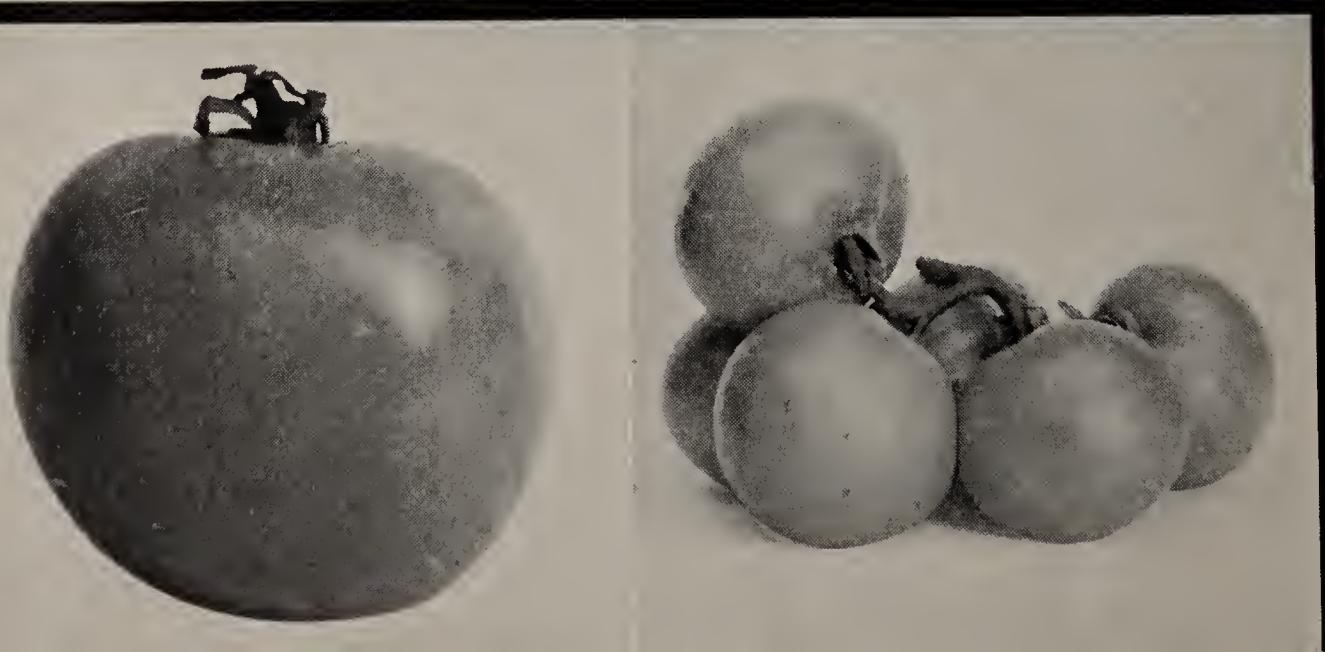




*Penn State Earliana, developed by Dr. Myers of the Pennsylvania State College, is extremely early, very productive over a short picking season before other varieties are ready, and the fruits are quite smooth, firm and of an attractive bright red color. Note the thick wall, small seed cavities and solidity of this strain. As a first early tomato it deserves recognition. Due to its sparse vine growth, it can be set closer than other later varieties.*

Kind of Vegetable	Description of Type	Order from this Column of Eastern States Varieties	Consumers' Prices				10-25- 50- Cwt.
			Pkt.	Oz.	$\frac{1}{4}$ Lb.	1-5 Lb.	
<b>TOMATO</b>							
Scarlet oval, very early	Penn State Earliana	.10	.35	1.00	3.50	3.25	
Scarlet globe, 2nd early	John Baer (Bonny Best)	.10	.35	1.00	3.50	3.25	
Scarlet topper, mid early	Pritchard	.10	.35	1.00	3.50	3.25	
Scarlet wilt res't main c.	Marglobe	.10	.35	1.00	3.50	3.25	
Scarlet oval, late	Stone	.10	.35	1.00	3.50	3.25	
Pink globe, main crop	Globe	.10	.35	1.00	3.50	3.25	
Yellow globe, main crop	Golden Queen	.10	.50	1.50	5.00	4.75	
<b>TOMATO — Pickling</b>							
Small fruited	Red Pear	.10	.50	1.50	5.00	4.75	
	Yellow Pear	.10	.50	1.50	5.00	4.75	

*The late Dr. Pritchard of the U.S.D.A. developed two outstanding disease resistant tomatoes. The Marglobe (left) is resistant to wilt and nail-head rust diseases. It has size, depth, smoothness, uniformity and bright scarlet red coloring. The interior is very fleshy, solid, thick walled and of pleasing flavor when grown under favorable soil and weather conditions. The vines are very vigorous in growth, producing fruit until killed by frost or disease. . . . The Pritchard (Scarlet Topper) came from a cross between Marglobe and an early variety known as Cooper's Special. Its early terminal flower buds prevent further vine growth. It is noted for its early prolific habits of setting large, firm, smooth scarlet red fruits in clusters. It is resistant to wilt and nail-head rust, bright interior color and produces the most of its fruit within a few early pickings. The exterior color is often light around the stem.*





*Purple Top White Milan turnip is very early, with flattened roots of white, sweet, tender flesh. . . . The Macomber (White Cape) Rutabaga is noted for its fine grained, mild, white flesh. The roots are large, attractive, white, globe in shape and are best developed in regions with a long, cool fall season, typical of the shore region of southern New England.*

Kind of Vegetable	Description of Type	Order from this Column of Eastern States Varieties	Consumers Prices				10-25- 50- Cwt.
			Pkt.	Oz.	1/4 Lb.	1-5 Lb.	
<b>TURNIP</b>							
White flesh, early	Purple Top White Milan	.10	—	.15	.40	.35	
White flesh, late	Purple Top White Globe	.10	—	.15	.40	.35	
Yellow flesh, mid late	Golden Ball (Orange Jelly)	.10	—	.15	.40	.35	
<b>RUTABAGA</b>							
Yellow flesh, round	L. I. Neckless Purple Top	.10	—	.15	.40	.35	
White flesh, round	Macomber (White Cape)	.10	—	.15	.40	.35	

The Eastern States Farmers' Exchange of Springfield, Mass. has exercised all reasonable precautions in the production and distribution of this seed; but cannot be responsible for the operation of Nature's laws; nor govern the conditions under which the crop is grown. Therefore, upon the acceptance of this seed, it is mutually agreed that the Eastern States Farmers' Exchange gives no warranty express or implied, concerning the description, quality, productiveness or condition of the crop and shall in no case be liable for more than the amount actually paid for the seed. Statements of germination, description and other information are given as the report of our tests, observations and advice.



**EASTERN STATES FARMERS' EXCHANGE**  
*Headquarters: SPRINGFIELD, MASS.*

A PLANTING CHART FOR EASTERN STATES VEGETABLES

Kind of Vegetable	Avg. % Germ. 1 yr.	Avg. Life Year	No. of Seeds Per Oz.	Seed For 100 <sup>1</sup>	Seed Per Acre	Seeds For Given No.	Time To Grow Before Field Transplanting	Plant For Forcing	Field (S) Planting Dates	Inches Between Rows	Inches Apart in Row	Depth Plant Inch	Days To Harvest	Relative Lime Needs	Not Below pH
Asparagus Seed	80	3	1250	1 oz	5 <sup>4</sup>	14-12000	1 year	-	4/1-5/15	16-24	3-6	1	4 yrs	Very High	6.5
Asparagus Roots	-	-	60-75	R-50	9680	-	-	-	4/1-5/15	36-48	18-24	1-10	3 yrs	Very High	6.5
Beans - Bush	85	3	50-75	1 lb	30 <sup>4</sup>	-	-	-	5/1-8/1	24-30	2-4	1-1 <sup>1</sup>	45-70	Medium	5.5
Beans - Pole	85	3	50-75	1 lb	30 <sup>4</sup>	-	-	-	5/15-6/1	36-48	6-48	1-1 <sup>1</sup>	75-90	Medium	5.5
Beet - Table	70	4	1500	1 oz	10 <sup>4</sup>	1 oz-2000	3 to 4 weeks	2/1-3/1	4/1-8/1	12-18	1 <sup>1</sup> -3	1 <sup>1</sup> -2	50-75	Very High	6.5
Beet - Mangold	70	4	1200	1 oz	6-8 <sup>4</sup>	-	-	-	5/1-6/1	18-36	4-6	1 <sup>1</sup> -2	90-95	Very High	6.0
Beet-Swiss Chard	80	4	10500	1 oz	3 oz	1 oz-5000	6 to 8 weeks	2/1-3/1	5/1-6/1	24-36	18-24	1 <sup>1</sup> -2	50-75	High	6.5
Broccoli	75	4	6500	1 oz	4 oz	1 oz-3000	6 to 8 weeks	2/1-3/1	4/1-6/15	24-36	14-24	1 <sup>1</sup> -2	95-120	Medium	5.5
Brussels Sprouts	80	4	8500	1 oz	4 oz	1 oz-4000	5 to 7 weeks	-	7/1-8/1	18-24	14-18	1 <sup>1</sup> -2	60-120	High	6.0
Cabbage Chinese	80	4	7000	1 oz	4 oz	1 oz-3000	6 to 8 weeks	-	7/1-8/1	12-16	1-3	1 <sup>1</sup> -2	75-90	High	6.0
Carrot	70	3	27000	1 oz	3-5 <sup>4</sup>	-	-	-	4/1-7/1	12-16	1-3	1 <sup>1</sup> -2	60-100	High	6.0
Cauliflower	75	4	10500	1 oz	1 oz	1 oz-5000	6 to 8 weeks	2/1-3/1	4/1-7/1	24-36	18-24	1 <sup>1</sup> -2	75-120	Very High	6.5
Celery	65	3	75000	1 oz	4 oz	1 oz-9000	9 to 12 weeks	2/1-3/1	5/1-5/15	24-48	4-8	1 <sup>1</sup> -2	75-120	Very High	6.5
Corn - Sweet	85	3	125	1 oz	12 <sup>4</sup>	-	-	-	5/1-6/20	30-40	6-8	1-1 <sup>1</sup>	60-90	Medium	5.5
Cucumber	80	5	1000	1 oz	2 <sup>4</sup>	1 oz-1000	5 to 7 weeks	4/1-5/1	5/1-6/15	48-60	12-36	1-1 <sup>1</sup>	60-75	High	6.0
Dandelion	75	4	35000	1 oz	5-6 <sup>4</sup>	-	-	8/1-9/1	4/1-9/1	18-24	6-10	1 <sup>1</sup> -2	175-210	Medium	5.5
Egg Plant	65	4	5000	1 oz	6 oz	1 oz-2000	8 to 10 weeks	3/1-4/1	5/15-6/1	24-30	18-24	1 <sup>1</sup> -2	90-120	High	6.0
Endive	75	5	15000	1 oz	45 <sup>4</sup>	1 oz-7500	5 to 6 weeks	3/1-4/1	4/15-7/1	18-24	12-18	1 <sup>1</sup> -2	90-100	Medium	5.5
Ecole	75	4	7500	1 oz	45 <sup>4</sup>	-	-	4/1-7/15	24-36	18-24	1 <sup>1</sup> -2	55-65	High	6.0	
Kohl-Rabi	80	3	8000	1 oz	45 <sup>4</sup>	-	-	-	4/1-8/15	18-24	4-6	1 <sup>1</sup> -2	55-65	Medium	5.5
Leek	80	2	9000	1 oz	45 <sup>4</sup>	-	-	-	4/1-5/1	18-24	3-4	1 <sup>1</sup> -2	Winter	Very High	6.5
Lettuce	80	5	16000	1 oz	3-4 <sup>4</sup>	1 oz-8000	5 to 6 weeks	3/1-4/1	4/1-7/25	16-18	12-16	1 <sup>1</sup> -2	45-75	Very High	6.5
Muskmealon	80	5	1200	1 oz	2-3 <sup>4</sup>	1 oz-5000	5 to 6 weeks	4/1-5/1	5/1-6/1	72-84	48-60	1-1 <sup>1</sup>	85-95	Very High	6.5
Watermelon	80	5	200	1 oz	3-4 <sup>4</sup>	1 oz-2500	5 to 6 weeks	4/1-5/1	5/1-6/1	84-96	60-72	1-1 <sup>1</sup>	80-90	Very Low	4.5
Onion Seed	75	2	12000	1 oz	4-5 <sup>4</sup>	1 oz-6000	9 to 12 weeks	1/1-2/1	4/1-5/1	18-24	3-4	1-1 <sup>1</sup>	150-200	Very High	6.5
Onion Sets	-	-	-	2 lb	300 <sup>4</sup>	-	-	-	4/1-5/1	18-24	3-4	1-1 <sup>1</sup>	90-100	Very High	6.5
Parley	65	1	17500	1 oz	3-4 <sup>4</sup>	-	-	-	4/1-8/1	12-18	4-6	1-1 <sup>1</sup>	120-150	Low	5.0
Parsnip	65	1	5600	1 oz	4-6 <sup>4</sup>	-	-	-	4/15-5/1	18-24	3-4	1-1 <sup>1</sup>	Winter	High	6.0
Pea	85	3	90	1 lb	90 <sup>4</sup>	-	-	-	4/1-5/1	24-36	2-3	1-1 <sup>1</sup>	60-75	High	6.0
Pepper	65	2	4000	1 oz	3 oz	1 oz-1500	8 to 9 weeks	3/1-4/1	5/15-6/1	5/15-6/1	60-72	1-1 <sup>1</sup>	65-90	High	6.0
Pumpkin	80	4	100	1 oz	4-5 <sup>4</sup>	4-100 lb	-	-	5/15-6/1	84-96	1-1 <sup>1</sup>	110-120	High	6.0	
Radish	85	4	3500	1 oz	12 <sup>4</sup>	-	-	-	4/1-9/1	12-14	1-2	1-2	24-30	Low	5.0
Rhubarb Roots	-	-	R-25	3000	-	-	-	-	4/1-9/1	48-56	36-48	-	2 yrs	Medium	5.5
Salsify	75	1	4500	1 oz	7-8 <sup>4</sup>	-	-	-	4/15-5/1	20-24	2-3	1-2	Winter	Very High	6.5
Spinach	70	3	3000	1 oz	12 <sup>4</sup>	-	-	-	3/1-9/15	14-18	3-6	1-2	40-50	Very High	6.5
Spinach New Zeal.	70	3	350	2 oz	15 <sup>4</sup>	-	-	-	4/15-5/1	48-56	36-48	1-1 <sup>1</sup>	60-90	Very High	6.5
Squash Summer	80	4	300	1 oz	3-5 <sup>4</sup>	4-100 lb	5 to 7 weeks	4/1-5/1	5/15-6/1	42-48	1-1 <sup>1</sup>	55-65	Low	5.0	
Squash Winter	80	4	125	2 oz	2-3 <sup>4</sup>	4-100 lb	-	-	6/1-6/10	72-84	60-72	1-1 <sup>1</sup>	100-120	Low	5.0
Tomato	80	3	7500	2 oz	2 oz	1 oz-3000	7 to 9 weeks	3/1-4/1	5/15-6/1	40-60	36-48	1-1 <sup>1</sup>	65-90	High	6.0
Turnip	85	4	10000	1 oz	1-2 <sup>4</sup>	-	-	-	4/1-8/1	12-18	2-4	1-2	60-90	Low	5.0
Rutabaga	85	4	10000	1 oz	1-2 <sup>4</sup>	-	-	-	6/15-7/1	18-24	4-6	1-2	80-110	Low	5.0

The average germination of 1 year old seed is conservatively based on vitality rather than mere germination. Guarantees between 80% and 90% may vary 7%, those between 70% and 80% may vary 8% and between 60% and 70% may vary 9% above or below the guarantee. This tolerance is approved by the Official Seed Analysts of North America.

The number of plants obtainable from a given quantity of seed depends upon many factors other than the seed. Even under favorable culture only the best plants should be used, discarding all weaklings. Proper control of temperature, watering, ventilation, spacing, fertilization and handling reduces the percentage of weak plants.

The time of planting and days to harvest are only approximate and vary with location, season, variety and management.

Have your soil in every field tested for acidity. Apply sufficient lime to meet the needs of the crops to be grown or choose the crops which are best adapted to the conditions in each field.